


|  |  |  |
|--|--|--|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>10/821,965 | <b>Applicant(s)/Patent under Reexamination</b><br>KAWACHI ET AL. |
|  | <b>Examiner</b><br>John J. Zimmerman         | <b>Art Unit</b><br>1775  |

| ISSUE CLASSIFICATION  |     |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|---|-----|----------|--|--|------------------------------|-----------------------------------|---|----|-----|-------------|---|---|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|---|----|-----|--|--|---|
| ORIGINAL  |     |          |  |  | INTERNATIONAL CLASSIFICATION |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
| CLASS   |     | SUBCLASS |  |  | CLAIMED                      |                                   |   |    |     | NON-CLAIMED |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
| 428   |     | 642      |  |  | F                            | 16                                | C | 33 | /06 |             |   | / |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
| <b>CROSS REFERENCES</b><br><table border="1"> <tr> <th>CLASS</th> <th colspan="3">SUBCLASS (ONE SUBCLASS PER BLOCK)</th> </tr> <tr> <td>428</td> <td>935</td> <td></td> <td></td> </tr> <tr> <td>384</td> <td>912</td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |     |          |  |  | CLASS                        | SUBCLASS (ONE SUBCLASS PER BLOCK) |   |    | 428 | 935         |   |   | 384 | 912 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | B | 32 | B | 15 | /01 |  |  | / |
|   |     |          |  |  | CLASS                        | SUBCLASS (ONE SUBCLASS PER BLOCK) |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
| 428   | 935 |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
| 384   | 912 |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   |    |     |             |   |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   | /  |     |             | / |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   | /  |     |             | / |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   | /  |     |             | / |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   | /  |     |             | / |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |
|   |     |          |  |  |                              |                                   |   | /  |     |             | / |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |   |    |     |  |  |   |

|   |                 |   |  |  |                     |                 |   |   |
|---|-----------------|---|--|--|---------------------|-----------------|---|---|
| NONE<br>(Assistant Examiner) (Date)<br><i>Van...</i><br>(Legal Instruments Examiner) (Date) |                 | JOHN J. ZIMMERMAN<br>(Primary Examiner) 2/2/00 (Date) | Total Claims Allowed: 8<br><br><table border="1"> <tr> <td>O.G. Print Claim(s)</td> <td>O.G. Print Fig.</td> </tr> <tr> <td>1</td> <td>1</td> </tr> </table> |  | O.G. Print Claim(s) | O.G. Print Fig. | 1 | 1 |
| O.G. Print Claim(s)   | O.G. Print Fig. |   |  |  |                     |                 |   |   |
| 1   | 1               |   |  |  |                     |                 |   |   |

|   |          |  |       |          |  |       |          |  |       |          |  |                              |          |                               |       |                                 |  |       |          |  |       |          |
|---|----------|--|-------|----------|--|-------|----------|--|-------|----------|--|------------------------------|----------|-------------------------------|-------|---------------------------------|--|-------|----------|--|-------|----------|
| <input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant |          |  |       |          |  |       |          |  |       |          |  | <input type="checkbox"/> CPA |          | <input type="checkbox"/> T.D. |       | <input type="checkbox"/> R.1.47 |  |       |          |  |       |          |
| Final   | Original |  | Final | Original |  | Final | Original |  | Final | Original |  | Final                        | Original |                               | Final | Original                        |  | Final | Original |  | Final | Original |
|   | 1        |  |       | 31       |  |       | 61       |  |       | 91       |  |                              | 121      |                               |       | 151                             |  |       | 181      |  |       | 211      |
|   | 2        |  |       | 32       |  |       | 62       |  |       | 92       |  |                              | 122      |                               |       | 152                             |  |       | 182      |  |       | 212      |
|   | 3        |  |       | 33       |  |       | 63       |  |       | 93       |  |                              | 123      |                               |       | 153                             |  |       | 183      |  |       | 213      |
|   | 4        |  |       | 34       |  |       | 64       |  |       | 94       |  |                              | 124      |                               |       | 154                             |  |       | 184      |  |       | 214      |
|   | 5        |  |       | 35       |  |       | 65       |  |       | 95       |  |                              | 125      |                               |       | 155                             |  |       | 185      |  |       | 215      |
|   | 6        |  |       | 36       |  |       | 66       |  |       | 96       |  |                              | 126      |                               |       | 156                             |  |       | 186      |  |       | 216      |
|   | 7        |  |       | 37       |  |       | 67       |  |       | 97       |  |                              | 127      |                               |       | 157                             |  |       | 187      |  |       | 217      |
|   | 8        |  |       | 38       |  |       | 68       |  |       | 98       |  |                              | 128      |                               |       | 158                             |  |       | 188      |  |       | 218      |
|   | 9        |  |       | 39       |  |       | 69       |  |       | 99       |  |                              | 129      |                               |       | 159                             |  |       | 189      |  |       | 219      |
|   | 10       |  |       | 40       |  |       | 70       |  |       | 100      |  |                              | 130      |                               |       | 160                             |  |       | 190      |  |       | 220      |
|   | 11       |  |       | 41       |  |       | 71       |  |       | 101      |  |                              | 131      |                               |       | 161                             |  |       | 191      |  |       | 221      |
|   | 12       |  |       | 42       |  |       | 72       |  |       | 102      |  |                              | 132      |                               |       | 162                             |  |       | 192      |  |       | 222      |
|   | 13       |  |       | 43       |  |       | 73       |  |       | 103      |  |                              | 133      |                               |       | 163                             |  |       | 193      |  |       | 223      |
|   | 14       |  |       | 44       |  |       | 74       |  |       | 104      |  |                              | 134      |                               |       | 164                             |  |       | 194      |  |       | 224      |
|   | 15       |  |       | 45       |  |       | 75       |  |       | 105      |  |                              | 135      |                               |       | 165                             |  |       | 195      |  |       | 225      |
|   | 16       |  |       | 46       |  |       | 76       |  |       | 106      |  |                              | 136      |                               |       | 166                             |  |       | 196      |  |       | 226      |
|   | 17       |  |       | 47       |  |       | 77       |  |       | 107      |  |                              | 137      |                               |       | 167                             |  |       | 197      |  |       | 227      |
|   | 18       |  |       | 48       |  |       | 78       |  |       | 108      |  |                              | 138      |                               |       | 168                             |  |       | 198      |  |       | 228      |
|   | 19       |  |       | 49       |  |       | 79       |  |       | 109      |  |                              | 139      |                               |       | 169                             |  |       | 199      |  |       | 229      |
|   | 20       |  |       | 50       |  |       | 80       |  |       | 110      |  |                              | 140      |                               |       | 170                             |  |       | 200      |  |       | 230      |
|   | 21       |  |       | 51       |  |       | 81       |  |       | 111      |  |                              | 141      |                               |       | 171                             |  |       | 201      |  |       | 231      |
|   | 22       |  |       | 52       |  |       | 82       |  |       | 112      |  |                              | 142      |                               |       | 172                             |  |       | 202      |  |       | 232      |
|   | 23       |  |       | 53       |  |       | 83       |  |       | 113      |  |                              | 143      |                               |       | 173                             |  |       | 203      |  |       | 233      |
|   | 24       |  |       | 54       |  |       | 84       |  |       | 114      |  |                              | 144      |                               |       | 174                             |  |       | 204      |  |       | 234      |
|   | 25       |  |       | 55       |  |       | 85       |  |       | 115      |  |                              | 145      |                               |       | 175                             |  |       | 205      |  |       | 235      |
|   | 26       |  |       | 56       |  |       | 86       |  |       | 116      |  |                              | 146      |                               |       | 176                             |  |       | 206      |  |       | 236      |
|   | 27       |  |       | 57       |  |       | 87       |  |       | 117      |  |                              | 147      |                               |       | 177                             |  |       | 207      |  |       | 237      |
|   | 28       |  |       | 58       |  |       | 88       |  |       | 118      |  |                              | 148      |                               |       | 178                             |  |       | 208      |  |       | 238      |
|   | 29       |  |       | 59       |  |       | 89       |  |       | 119      |  |                              | 149      |                               |       | 179                             |  |       | 209      |  |       | 239      |
|   | 30       |  |       | 60       |  |       | 90       |  |       | 120      |  |                              | 150      |                               |       | 180                             |  |       | 210      |  |       | 240      |